



TOP SECRET

IMAGERY
ANALYSIS
DIVISION

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

POSSIBLE LAUNCH SITE

WEST OF INSTRUMENTATION SITE 2

SARY SHAGAN ANTIMISSILE TEST CENTER,

USSR

Declassification by NIMA/DoD

25X

CIA/PIR 61083

25X

DATE Dec 1965
COPY 88
PAGES 18

GROUP 1
Excluded from automatic
downgrading and declassification

TOP SECRET

25X1

Approved For Release 2003/08/05 : CIA-RDP78T05161A000400010014-0

Approved For Release 2003/08/05 : CIA-RDP78T05161A000400010014-0

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

LIST OF ILLUSTRATIONS

- Figure 1 - Location of the new road west of Instrumentation Site 2, Sary Shagan Antimissile Test Center, [REDACTED]
- Figure 2 - Photograph of area of new activity west of Instrumentation Site 2, Sary Shagan Antimissile Test Center, [REDACTED]
- Figure 3 - Distance relationships from the new possible launch site to selected areas within the Sary Shagan Antimissile Test Center
- Figure 4 - Photograph and unrectified line drawing of possible launch site under construction at terminus of the new road, Sary Shagan Antimissile Test Center, [REDACTED]
- Figure 5 - Rectified line drawing (scale - 30 feet equals one inch) of possible launch site under construction at terminus of the new road, Sary Shagan Antimissile Test Center
- Figure 6 - Photograph of possible missile assembly and checkout area west of Instrumentation Site 2, Sary Shagan Antimissile Test Center, [REDACTED]
- Figure 7 - Unrectified line drawing of possible missile assembly and checkout area west of Instrumentation Site 2, Sary Shagan Antimissile Test Center, [REDACTED]

TOP SECRET

LOCATION OF THE NEW ROAD WEST OF INSTRUMENTATION SITE 2-SSATC, USSR

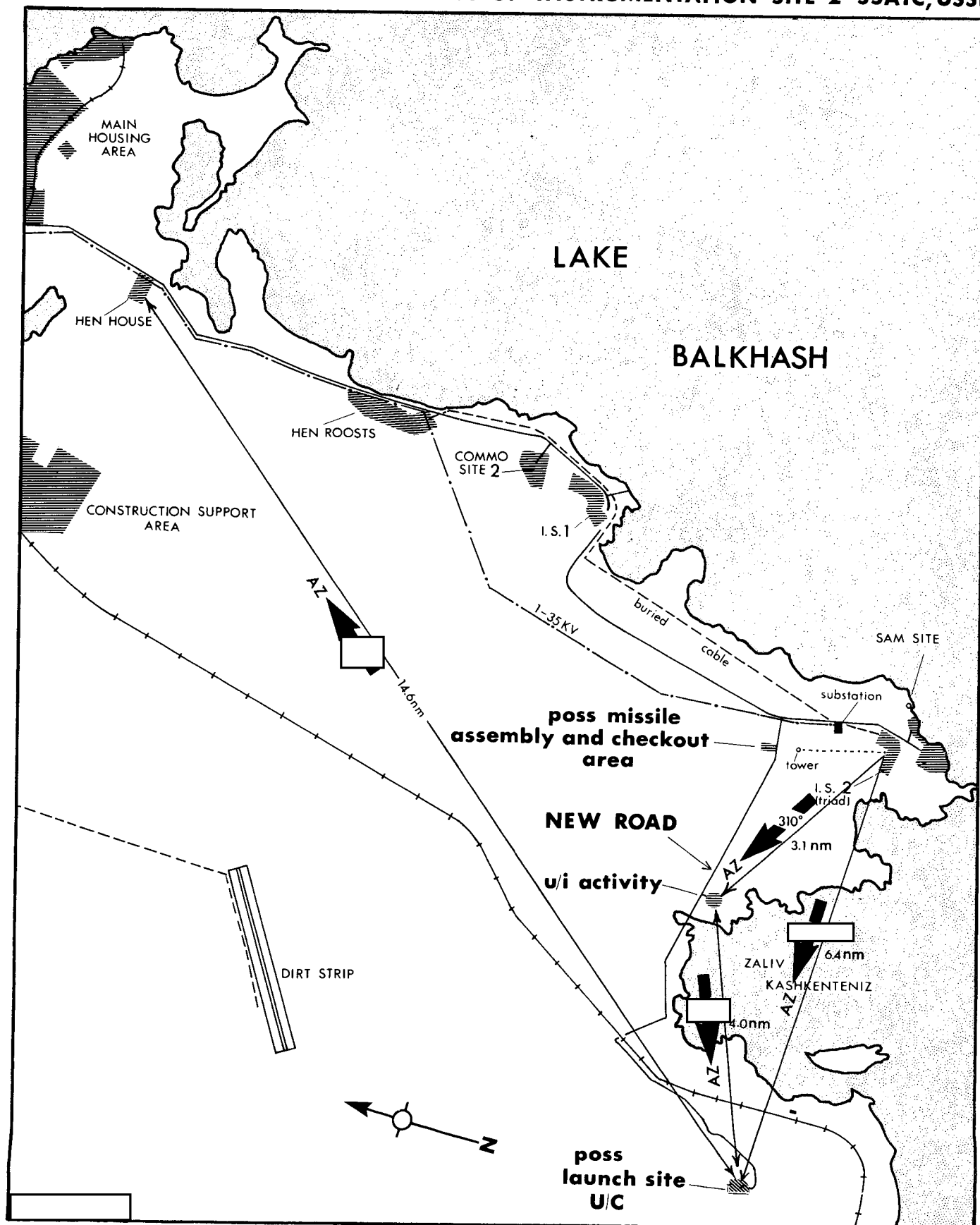


FIGURE 1

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

POSSIBLE LAUNCH SITE WEST OF INSTRUMENTATION SITE 2

SARY SHAGAN ANTIMISSILE TEST CENTER, USSR

45-53N 073-24E

INTRODUCTION

[redacted] a new road was observed under construction approximately 2 nautical miles (nm) north of Sary Shagan Antimissile Test Center Instrumentation Site 2. Initial construction had extended the road approximately 3.2 nm westward from its intersection with the Instrumentation Site 2 access road; its activity can be negated on [redacted], a possible missile assembly and checkout facility was under construction a short distance west of the intersection and one year later, [redacted] a possible missile launch site was under construction at the terminus of this road, approximately 6.4 nm west of Sary Shagan Antimissile Test Center Instrumentation Site 2 (Figures 1 and 2). This report presents a chronology and analysis of the photographic evidence of this new activity and includes the most recent photographic coverage [redacted] with line drawings and mensuration.

POSSIBLE LAUNCH SITE 45-53N 073-24E

The possible launch site, being constructed within a 615 by 820 foot secured area, is located 14.6 nm southwest of Sary Shagan Radar Site 1 (HEN HOUSE) and 6.4 nm west of Sary Shagan Instrumentation Site 2, at the terminus of a newly constructed road (Figures 1 through 5). The road serving the site hooks sharply toward the north just before entering the secured area. A loop-shaped road, apparently receiving a layer of black top, occupies the southern half of the secured area.

The section of the access road within the secured area bypasses the loop road and appears to terminate at an area of dark scars suspected to contain an excavation. The loop road ties into the access road in a manner suggesting that an incoming missile will receive final servicing/inspection at the loop road, following which it would be transported back onto the access road for further movement into the secured area and to its possible launch point.

A roughly circular excavation, approximately 40 feet in diameter, is located just east of the access road terminus. A faint area of unidentified activity, served by a looping ground scar, is located approximately 655 feet west of the loop road pattern. An unidentified structure measuring

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

approximately 50 by 25 feet is located adjacent the entrance to the secured area. A rectified line drawing, at a scale of 30 feet to the inch, is presented in Figure 5.

POSSIBLE MISSILE ASSEMBLY AND CHECKOUT AREA

The possible missile assembly and checkout area, consisting of 9 buildings, is located on the north side of the new road, approximately 2,800 feet west of the intersection with the access road to Instrumentation Site 2 (Figures 2, 6, and 7). As of photography of [] only a portion of a security fence can be identified. Two buildings and a possible storage tank are located east of this fence, and possibly outside of the secured portion of the area. Three of the buildings in the area are possibly drive-through buildings or have contiguous hard-surfaced aprons. One of these is located west of the partially secured area.

ANALYSIS

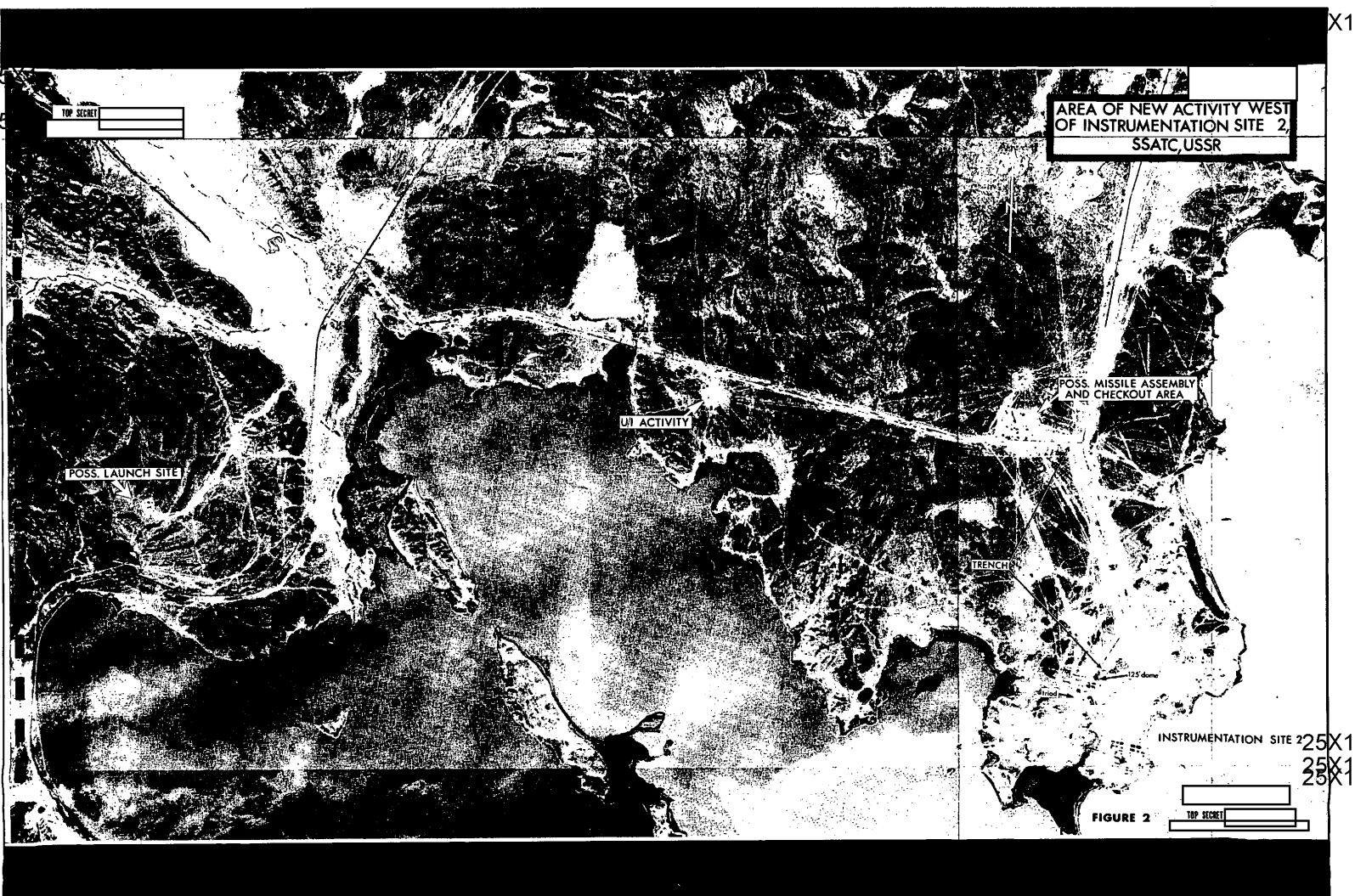
Analysis of photographic evidence indicates that the designated function, "possible missile launch site," is reasonable and more likely than other functions considered. This evidence includes the following.

1. The road serving the secured site was constructed especially to provide access to the possible launch area and terminates at the site just after a sharp change in direction. The latter suggests that the orientation or azimuth of the inclosed facility is important.

2. The secured area contains a hard surfaced loop type road or pad

TOP SECRET

Approved For Release 2003/08/05 : CIA-RDP78T05161A000400010014-0



TOP SECRET

25X

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

25X

configuration, served by wide angle turn-offs from the site access road.

3. The possible launch site is located at a missile test center in a relatively isolated area. The area selected for the site suggests that its precise location was just as important as its distance from the other facilities at the range (Figures 1, 2, and 3).

4. Construction on the possible launch site commenced shortly after construction on the possible missile assembly and checkout area began and both are served by the same road.

Of the other functions considered during this analysis, electronics or instrumentation were possible candidates. However, these were ruled out for the following reasons.

1. The support area (Figures 6 and 7) contains possible drive through or apron-served buildings which suggests that its function is possibly missile assembly and checkout.

2. The support area (possible missile assembly and checkout area) is too far away to be an electronics or instrumentation site support area. It is recognized that the distance is rather unique for a launch site support area as well, however there would seem to be less justification for such distance in the case of electronics or instrumentation.

3. Instrumentation Site 2 is probably capable of supporting, if necessary, additional electronics or instrumentation facilities. Furthermore, if the position in question were electronics or instrumentation, the support area for Instrumentation Site 2 would suffice as a support facility for the new site, probably with only minor additions.

4. The road serving the position in question appears to be too well improved to be serving a relatively small electronics or instrumentation site.

DISCUSSION

The location of this possible launch site in the general vicinity of Instrumentation Site 2 is probably significant, this being one of the four sites at the missile test center which have an electronics facility consisting of a building triad similar to those being deployed at Moscow.*

* Probable GALOSH launch sites have been identified in the triad area at Sary Shagan's Launch Complex B, and have been reported as probably under construction at Moscow SAM Site E33-1 (See Document Reference 7).

TOP SECRET

25X

25X

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

Though the Sary Shagan Antimissile Test Center Launch Complex B triad is the only one at Sary Shagan which has the large domed environmental shelters similar to those being constructed at Moscow, an adjacent building at Instrumentation Site 2 does carry a domed environmental shelter approximately 125 feet in diameter.

Of particular interest is the prominent trench which connects the new road with the Instrumentation Site 2 operations area (Figure 2). The partially dug trench was first seen on [redacted] and was extended to the instrumentation site operations area sometime between [redacted]. This trench is suspected to parallel the new road toward the possible launch site, while the other end leads directly toward the instrumentation site building with the 125 foot domed environmental shelter. Though the trench cannot be seen entering the domed building, its presence brings to mind the equally prominent trench seen connecting the Launch Complex B triad facility with nearby launch sites at Facility B and C.

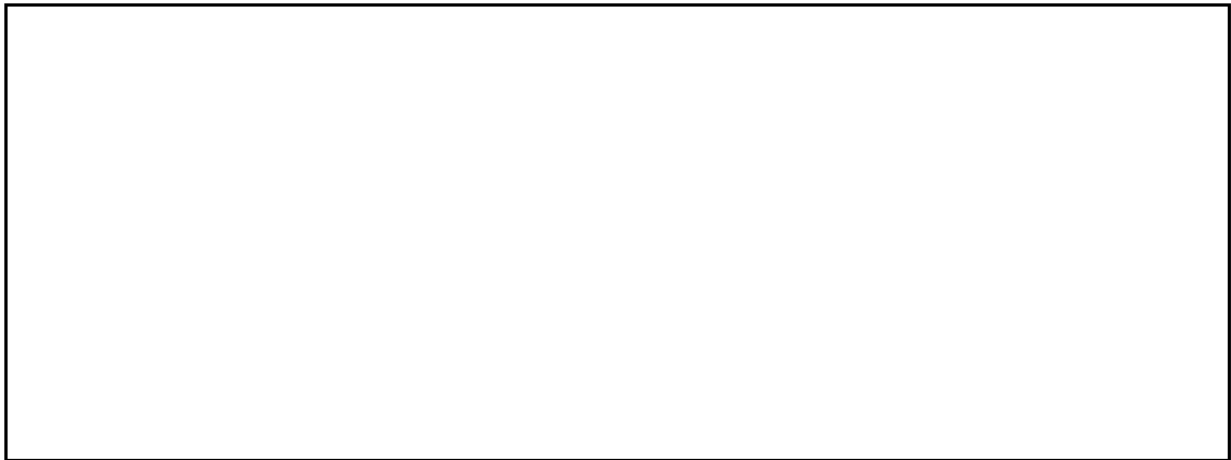
With the exception of distances on Figure 3, which were made by the CIA/IAD analyst using DESPA series map sheets, all measurements in this report were made by the NPIC Technical Intelligence Division and are considered to be accurate within +10 feet or 5 percent, whichever is greater. Azimuths shown are considered accurate [redacted]

REFERENCES**TOP SECRET**

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083



MAPS AND CHARTS

ACIC. US Air Target Chart, Series 200, Sheets 245-14 and 245-15, Scale 1:200,000, 2nd edition, March 1963 (SECRET)

AMS. Series DESPA-1, 1st edition, Scale 1:250,000, Sheet NL 43-4, June 1962 (TOP SECRET)

AMS. Series DESPA-1, 1st edition, Scale 1:250,000, Sheet NL 43-5, May 1962 (TOP SECRET)

AMS. Series DESPA-1, 1st edition, Scale 1:250,000, Sheet NL 43-7, June 1962 (TOP SECRET)

DOCUMENTS

1. CIA memorandum report M/EB 410/63, Sary Shagan Selected Installation Analysis, September 1963 (TOP SECRET)
2. CIA/PIR-13/64, Comparison of Possible AMM Associated Facilities at Moscow and Sary Shagan, USSR, August and September 1963 (TOP SECRET)
3. NPIC PIR Possible AMM Associated Activity Moscow Area, USSR, September 1964-March 1965 (TOP SECRET)
4. CIA PIR Dual HEN HOUSE Radar Sites - Angarsk, Sary Shagan and Olenegorsk, USSR, April 1965 (TOP SECRET)

TOP SECRET

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

5. CIA/PIR-61067, Analysis of Select [] Activity Launch Complexes
A & B, Sary Shagan Antimissile Test Center, USSR, November 1965
(TOP SECRET [])
6. CIA PIR [] New Dirt Strip Under Construction and Sary
Shagan Airfield Southwest, Sary Shagan, USSR, May 1965 (TOP SECRET
[])
7. CIA/PIR-61068, Launch Complex B, Sary Shagan Antimissile Test Center,
USSR, 1960-1965 (TOP SECRET [])

REQUIREMENT

C-SI4-81,862

CIA/IAD PROJECT

30836-4

TOP SECRET

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

MAPS AND CHARTS

ACIC. US Air Target Chart, Series 200, Sheets 245-14 and 245-15, Scale 1:200,000, 2nd edition, March 1963 (SECRET)

AMS. Series DESPA-1, 1st edition, Scale 1:250,000, Sheet NL 43-4, June 1962 (TOP SECRET [REDACTED])

AMS. Series DESPA-1, 1st edition, Scale 1:250,000, Sheet NL 43-5, May 1962 (TOP SECRET [REDACTED])

AMS. Series DESPA-1, 1st edition, Scale 1:250,000, Sheet NL 43-7, June 1962 (TOP SECRET [REDACTED])

DOCUMENTS

1. CIA memorandum report [REDACTED] M/EB 410/63, Sary Shagan Selected Installation Analysis, September 1963 (TOP SECRET [REDACTED])
2. CIA/PIR-13/64, Comparison of Possible AMM Associated Facilities at Moscow and Sary Shagan, USSR, August and September 1963 (TOP SECRET [REDACTED])
3. NPIC PIR [REDACTED] Possible AMM Associated Activity Moscow Area, USSR, September 1964-March 1965 (TOP SECRET [REDACTED])
4. CIA PIR [REDACTED] Dual HEN HOUSE Radar Sites - Angarsk, Sary Shagan and Olenegorsk, USSR, April 1965 (TOP SECRET [REDACTED])

TOP SECRET

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61003

5. CIA/PIR-61067, Analysis of Select 1964-65 Activity Launch Complexes A & B, Sary Shagan Antimissile Test Center, USSR, November 1965
(TOP SECRET [REDACTED])
6. CIA PIR [REDACTED] New Dirt Strip Under Construction and Sary Shagan Airfield Southwest, Sary Shagan, USSR, May 1965 (TOP SECRET
[REDACTED])
7. CIA/PIR-61068, Launch Complex B, Sary Shagan Antimissile Test Center, USSR, 1960-1965 (TOP SECRET [REDACTED])

REQUIREMENT

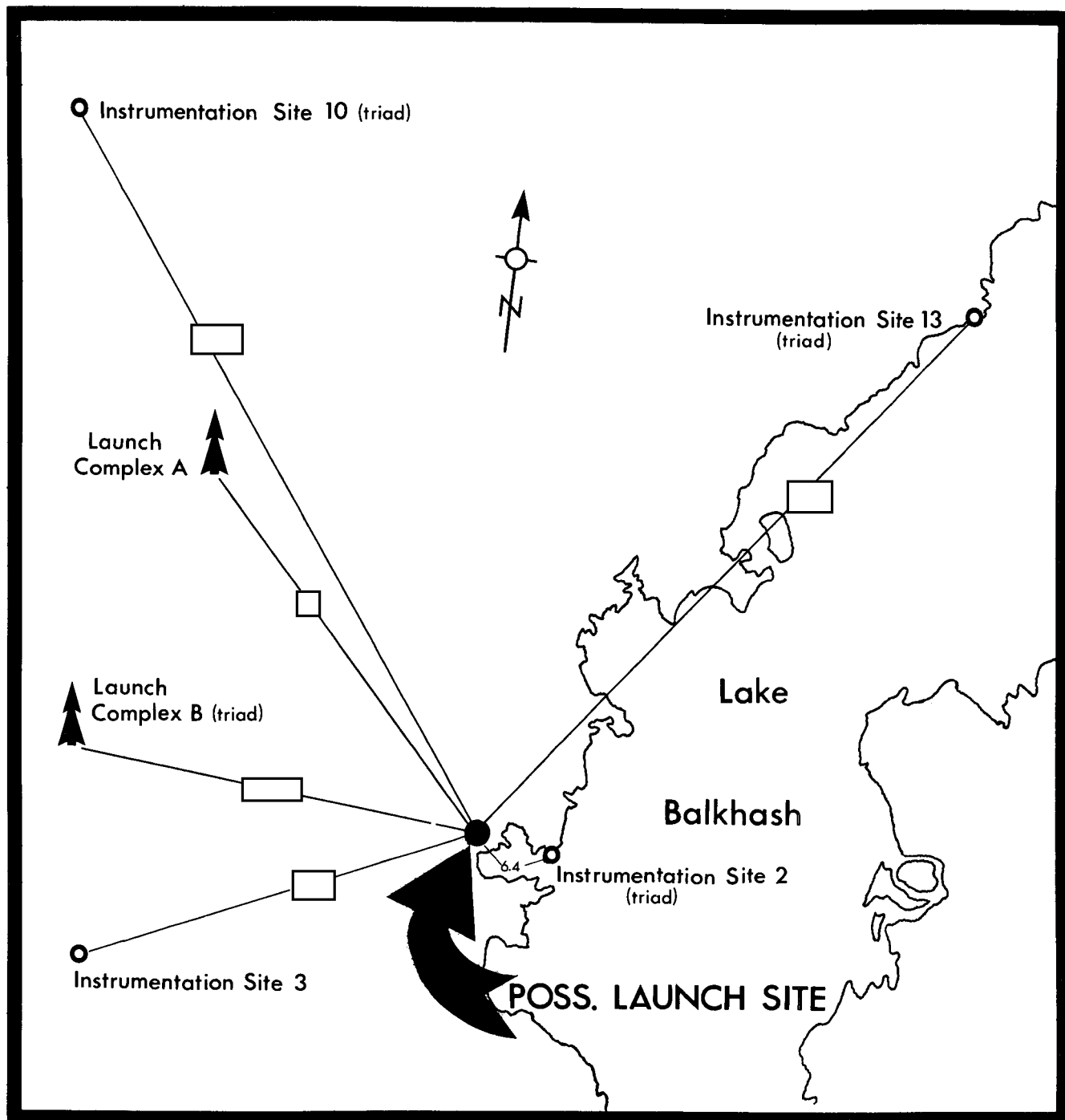
C-SI4-81,862

CIA/IAD PROJECT

30836-4

TOP SECRET

DISTANCE RELATIONSHIPS FROM NEW POSS. LAUNCH SITE TO SELECTED AREAS WITHIN SSATC, USSR



distances in nautical miles

TABLE I

| <u>Main Road Progress (Figure 2)</u> | <u>Possible Missile Assembly/Checkout Area (Figures 6 & 7)</u> | <u>Unidentified Activity (Figure 2)</u> | <u>Possible Missile Launch Site (Figures 4 & 5)</u> |
|--|--|--|---|
| Negation | | Negation | |
| New road scar extends 3.2 nm west from Instrumentation Site 2 access road to salt pan. | | Several trails lead to this area. | |
| Road extended halfway across salt pan. | | Another trail appears. | |
| Road extends to rail- road, stops, and resumes, from a point to the SW as far as future location of possible launch site. | Negation | Heavy trail activity to this area. Unidentified equipment pre- sent in central clearing; 15-20 objects. | |
| Section of road con- tiguous to railroad now graded. Terminus of road is extended into a north pointing "hook." A layer of black-top has been added on the east- west section of road to a point just short of the level grade railroad crossing. | Angular scar appears perpendicular to main road. Unidentified activity and equipment present. Two trails lead S to a 245 foot tower already present. | No apparent change | |

TOP SECRET

TOP SECRET

CIA IMAGERY ANALYSIS DIVISION

CIA/PTR-61083

Table I continued...

| <u>Main Road Progress (Figure 2)</u> | <u>Possible Missile Assembly/Checkout Area (Figures 6 & 7)</u> | <u>Unidentified Activity (Figure 2)</u> | <u>Possible Missile Launch Site (Figures 4 & 5)</u> |
|--|--|---|---|
| Section of road crossing rail line has received black top. | No apparent change | No apparent change | |
| No apparent change | Several probable buildings visible. Possible security fence under con- struction. New trench extends SE from the road to unidentified activity. New scar parallels 35 KV line from new road to substation. | No apparent change | |
| No apparent change | No apparent change | No apparent change | |
| Possible clearings for power poles at several points along the road. | No apparent change | No apparent change | |
| No apparent change | No apparent change | No apparent change | |

Table I continued...

| Main Road Progress (Figure 2) | Possible Missile Assembly/Checkout Area (Figures 6 & 7) | Unidentified Activity (Figure 2) | Possible Missile Launch Site (Figures 4 & 5) |
|-----------------------------------|--|--|--|
| No apparent change | Seven buildings are under construction. Numerous other unidentified objects are present. | Most unidentified objects remain but have changed position. Probable items of equipment. | Earth scarring visible adjacent to the terminus of the "hook" road. |
| Poor Quality - No Changes Visible | | | |
| No apparent change | Ten buildings or structures now visible under construction. New trails lead to area of power substation. | Only a few of the unidentified objects remain. No new scarring. | Small increase in earth scarring at the terminus of the "hook" road. |
| No apparent change | No apparent change | No apparent change | |
| No apparent change | No apparent change | No apparent change | Activity continues at the hook in the form of widened scarring, however, this is the negation mission for the possible launch site construction. |

CIA IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

Table I continued...

X1

X1

X1

TOP SECRET

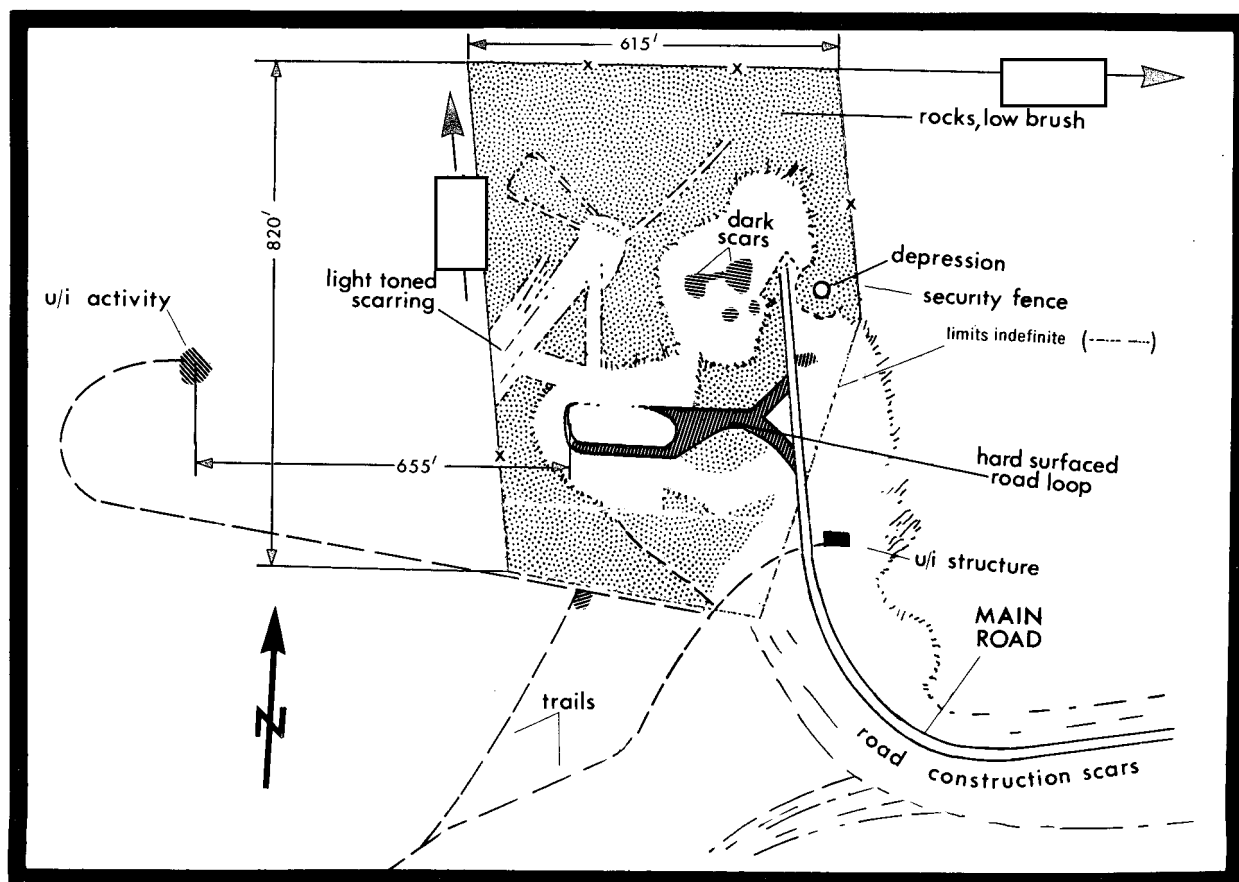
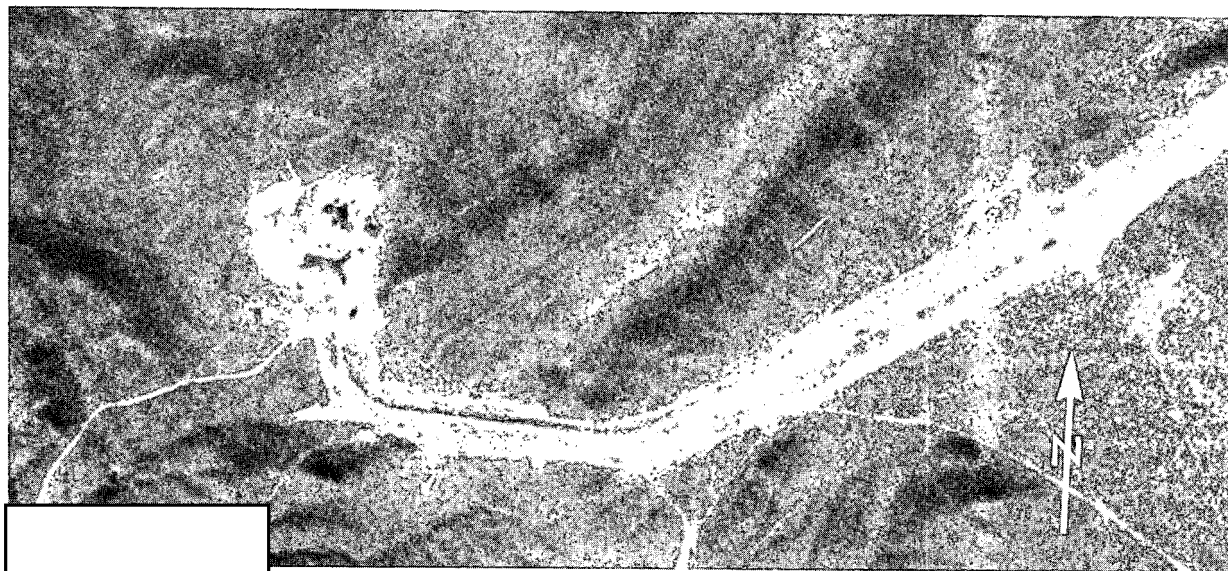
TOP SECRET

| <u>Main Road Progress (Figure 2)</u> | <u>Possible Missile Assembly/Checkout Area (Figures 6 & 7)</u> | <u>Unidentified Activity (Figure 2)</u> | <u>Possible Missile Launch Site (Figures 4 & 5)</u> |
|---|---|---|--|
| No apparent change | Cloud covered | Cloud covered | The hook at the end of the road extends into a rectangular secure area. A loop-shaped road has been constructed. Unidentified activity present within the secure area. |
| Additional scars exist for possible power poles. Unidentified trace parallels the road. | The trench previously seen paralleling the 35 KV powerline now extends S into the Instrumentation Site 2 Operations Area (Figures 2 & 6). The buildings in this area are described in Figure 7. | No equipment visible in the cleared area. Area seems to be abandoned. | Road loop appears hard-surfaced. At least one unidentified structure is visible. See Figures 4 & 5 for details of this area. |

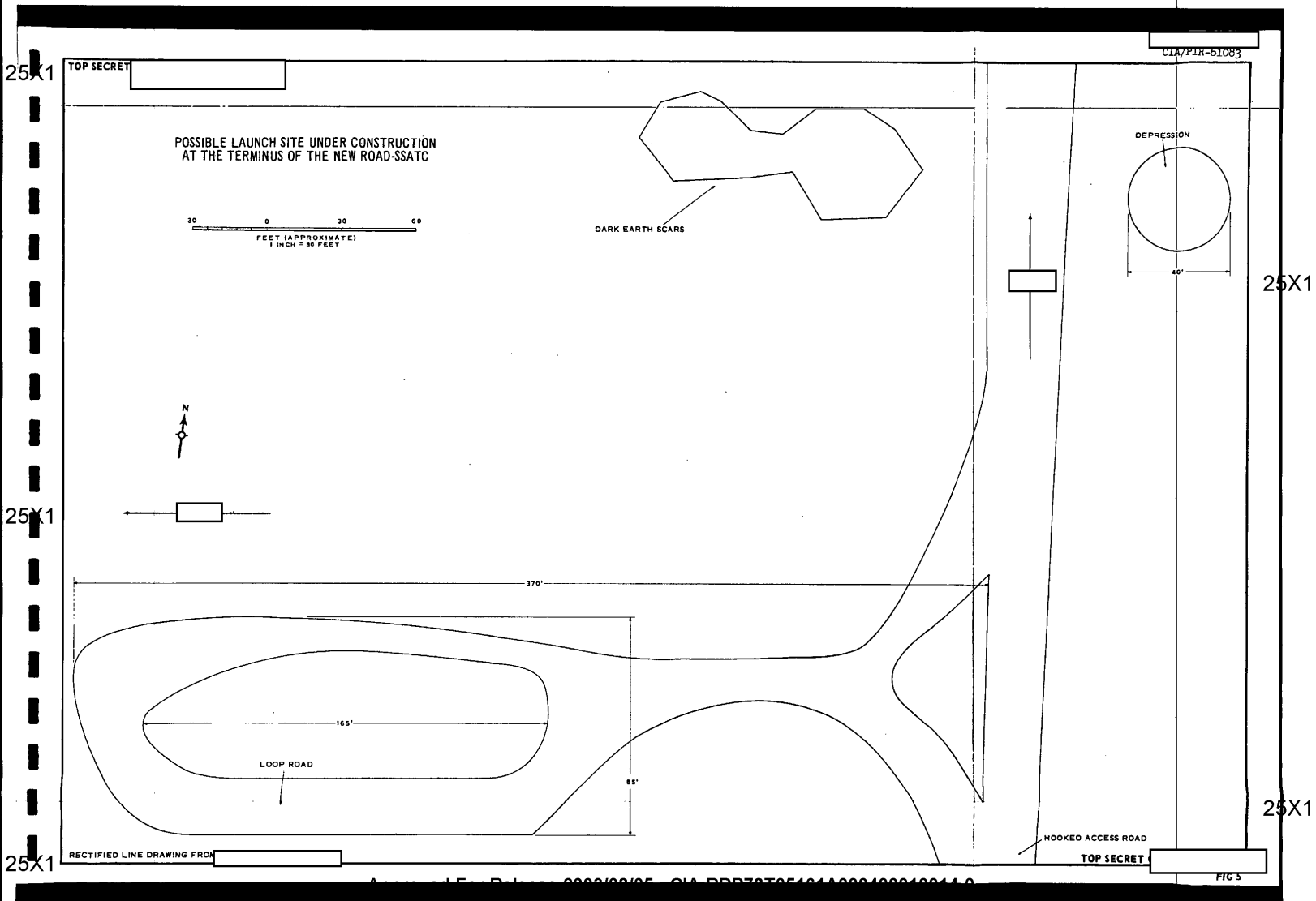
CIA/IMAGERY ANALYSIS DIVISION

CIA/PIR-61083

POSS LAUNCH SITE U/C — TERMINUS OF THE NEW ROAD — SSATC



Unrectified drawing as taken from the above photography



TOP SECRET

CIA/PIR-61083

25X

25X

POSS. MISSILE ASSEMBLY AND CHECKOUT AREA

SARY SHAGAN USSR



TOP SECRET

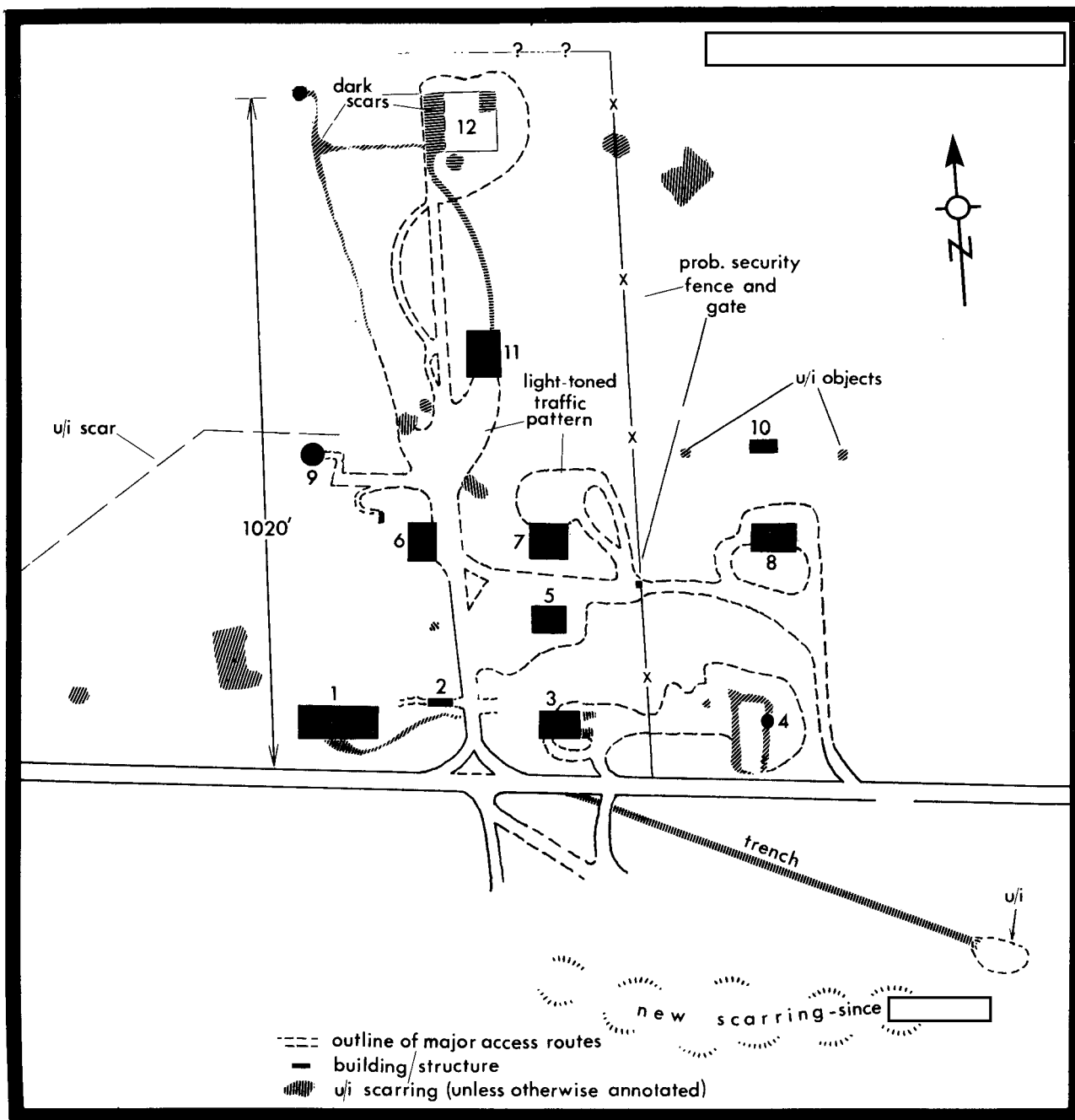
FIGURE 6

25X

— unrectified drawing of —

POSS. MISSILE ASSEMBLY AND CHECKOUT AREA

SARY SHAGAN USSR



DIMENSIONS AND POSSIBLE FUNCTION OF ANNOTATED STRUCTURES

- | | |
|---|--|
| 1. 45'x140' — barracks/administration | 7. 60'x80' — maintenance/equipment |
| 2. 25'x35' — equipment/storage | 8. 40'x90' — poss. drive-through building |
| 3. 45'x65' — poss. drive-through building | 9. 25' diam — tower or tank |
| 4. 15' diam — storage tank | 10. 15'x50' — equipment/storage |
| 5. 50'x70' — maintenance/equipment | 11. 65'x80' — poss. drive-through building |
| 6. 40'x70' — equipment/storage | 12. 85'x90' — hardstand |

FIGURE 7 Approved For Release 2003/08/05 : CIA-RDP78T05161A000400010014-0

TOP SECRET

TOP SECRET